

DECONTAMINATION & REFURBISHMENT FACILITY (DRF)

SPECIALIZED FACILITIES FOR COST-EFFECTIVE SAVINGS



Unrivalled Nuclear Expertise

Kinectrics has over 40 years of experience working with the nuclear industry in metallurgy, chemistry, high-voltage testing, equipment qualification, materials testing, and waste management problem-solving.

Our services comprise a full complement of proven technical resources, readily available on-site to support your decontamination and maintenance programs.

An important resource

Decontamination and maintenance of valuable radioactive equipment is a cost-effective method of reducing new capital expenditures. In many cases, equipment that might otherwise be stranded at nuclear facilities can be decontaminated for free release to allow maintenance or refurbishment at non-licensed facilities. As an alternative option, equipment with activity can also be repaired or refurbished in the Kinectrics Decontamination and Refurbishment Facility (DRF) for return to service.

A unique facility

The Decontamination and Refurbishment Facility (DRF) has been specially-designed and built at Kinectrics to meet the specific needs of the nuclear industry. Licensed for specific work activities by the CNSC, the DRF is a dedicated area for the refurbishment, repair and decontamination of active plant equipment and components. Configured as a simple, large, open workspace, the DRF provides a complete, secure environment—with added flexibility to meet a wide range of industry needs.

Decontamination

When full decontamination of equipment is required, Kinectrics technicians, working in concert with your technical experts, will provide comprehensive services to ensure the safe, successful disassembly and decontamination of internal components and surfaces. Typical equipment to be processed would include valves, pumps, motors, and tools.



Repair and Refurbishment

In some cases, decontamination for free release may not be possible or necessary. In these circumstances, maintenance on components can take place in the DRF—supervised by fully-qualified Kinectrics' radiation safety personnel—before the equipment is returned to service. Testing and validation of contaminated components can also be safely conducted within the licensed facility before return to service. Typical equipment would include valves, pumps, motors, heat-exchangers, and tooling.

Radioactive Waste Management

The Kinectrics Decontamination and Refurbishment Facility is an ideal location for work involving the consolidation and solidification of contaminated waste prior to its disposal. Kinectrics can also provide extensive expertise to assist in the proper handling and disposal of waste materials produced by the decontamination and maintenance of active equipment.

DRF Specifications and Summary

- Working Dimensions:* With 200 m² of floor area (approximately 8.5 m x 23 m) and a peak vertical clearance of 7 m the DRF provides a large, flexible workspace. The entrance door height of 4.25 m and 3.6 m width can accommodate large components.
- Atmosphere Containment:* A negative pressure is maintained within the facility with 100% HEPA-filtered atmosphere extraction. A flexible extraction arm is available for point extraction of vapours and particulates.
- Spill Containment:* The DRF has an impermeable, epoxy-coated concrete floor and berm for secondary containment of liquids.
- Loading and Craning:* Can be arranged on request.
- Nuclear Waste Disposal:* Kinectrics can assist with contaminated waste handling and disposal.
- Radiation & Safety Support:* Kinectrics' staff provides complete radiation and safety planning, support and monitoring.
- Technical Support:* Kinectrics' full technical capabilities, experience, and state-of-the-art facilities are available to support DRF projects.

**QA / QC Kinectrics is
registered to ISO 9001 and
10 CFR 50 Appendix B**



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